ANALYTICAL REPORT

Prepared by LOCKHEED MARTIN

St. John Methyl Bromide Site St. John, USVI

June 2015

EPA Work Assignment No. SERAS-270 LOCKHEED MARTIN Work Order No. SER00270 EPA Contract No. EP-W-09-031

> Submitted to R. Singhvi EPA/ERT 2890 Woodbridge Avenue Edison, NJ 08837

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Date

Analysis by:

ERT/SERAS Laboratory

Prepared by:/Reviewed by: Y. Mehra/ A. LoSurdo

Y.Mehra



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Appendices will be furnished on request.







TESTING LABORATORIES INFORMATION

Analysis of Volatile Organic Compounds in Air by SERAS SOP #1814, "Analysis of Volatile Organic Compounds (VOCs) in SUMMA Canister Air Samples by Gas Chromatography/Mass Spectrometry (GC/MS)"

ERT/SERAS Laboratory 2890 Woodbridge Avenue Edison, NJ 08837

All analyses were performed according to our NELAP-approved quality assurance program. The test results meet the requirements of the current NELAP standards, where applicable, except as noted in the laboratory case narrative provided. Results are intended to be considered in their entirety and apply only to those analyzed and reported herein.

ERT/SERAS Laboratory is certified by the New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID # 12023 for VOC analysis in air.



Detailed Sample Information

<u>Laboratory Sample #</u>	Field Sample #
R506003-01	9951
R506003-02 R506003-03	9952 9953
R506004-01	9954
R506004-02	9955
R506004-03	9956
R506004-04	9957
R506006-01	9881
R506006-02	9882
R506006-03	9883
R506006-04	9884
R506006-05	9885



Introduction

SERAS personnel, in response to WA# SERAS-270, provided analytical support for environmental samples collected from the St. John Methyl Bromide Site in St. John, USVI as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

The samples analyzed at SERAS were treated with procedures consistent with those specified in SERAS SOP #1008, Sample Receiving, Handling and Storage.

Chain of Custody #	Number of Samples	Sampling Date	Date Received	Date Analyzed	Matrix	Analysis/ Method	Laboratory	Data Package
06880	2	06/02/15	06/04/15	06/05/15	Air	VOC/SERAS SOP# 1814	ERT/SERAS	AA 092
06881	1	06/03/15				501 // 1014		
07525	2	06/05/15	06/06/15	06/06/15				AA 093
06832	1							
	1	06/04/15						
06892	2	06/07/15	06/09/15	06/09/15				AA 095
06893	2							
06888	1				Trip Blank			

Case Narrative

Sampling was conducted as per the site-specific Quality Assurance Project Plan (QAPP) and analyzed by the analytical methods as stated in the QAPP. The laboratory reported the data to three significant figures. Any other representation of the data is the responsibility of the user. Data were validated using a Stage 4 validation done manually (S4VM) in accordance with the "Guidance for Labeling Externally Validated Data for Superfund Use." All data validation flags have been inserted into the results tables.

VOCs in Air Package AA 092, AA 093 and AA 095

The data were examined and found to be acceptable.

The results presented in this report only relate to the samples analyzed. All results are intended to be considered in their entirety. The Environmental Response Team/Scientific, Engineering, Response and Analytical Services laboratory is not responsible for utilization of less than the complete report.



Summary of Abbreviations

BFB Bromofluorobenzene

BS Blank Spike

BSD Blank Spike Duplicate
OC Degree Centigrade
COC Chain of Custody
conc concentration
ctd continued

PCDD/PCDF Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)

DFTPP Decafluorotriphenylphosphine

EMPC Estimated maximum possible concentration
GC/ECD Gas Chromatography/Electron Capture Detector
GC/MS Gas Chromatography/ Mass Spectrometry
Hg-CVAA Mercury-Cold Vapor Atomic Absorption

ICP-AES Inductively Coupled Plasma- Atomic Emission Spectroscopy

ID Identification
IS Internal Standard

LCS Laboratory Control Sample

LCSD Laboratory Control Sample Duplicate
MDA Minimum Detectable Activity
MDL Method Detection Limit

MS Matrix Spike

MSD Matrix Spike Duplicate MW Molecular Weight

NA Not Applicable or Not Available NAD Normalized Absolute Difference

NC Not Calculated

NR Not Requested/Not Reported

% D Percent Difference % R Percent Recovery

SOP Standard Operating Procedure PCB Polychlorinated Biphenyl PDS Post Digestion Spike

Percent RSD Percent Relative Standard Deviation

ppbv parts per billion by volume

ppm parts per million

pptv parts per trillion by volume
QA/QC Quality Assurance/Quality Control
QAPP Quality Assurance Project Plan

RL Reporting Limit

RPD Relative Percent Difference S4VM Stage 4 validation done manually

SIM Selected Ion Monitoring

SERAS Scientific Engineering Response and Analytical Services

TIC Tentatively Identified Compound

TCLP Toxicity Characteristic Leaching Procedure

SVOC Semi Volatile Organic Compound VOC Volatile Organic Compound

* Value exceeds the acceptable QC limits

m^3	cubic meter	g	gram	kg	kilogram	L	liter
μg	microgram	μL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie	σ	sigma

Data Validation Flags

J- Value is estimated low UJ Not detected and RL is estimated

Rev. 01/01/15, YRM



Table 1.1a Results of the Analysis for VOC (ppbv) in Air WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

Page 1 of 2

SERAS Sample Number Sample Number Sample Location	ample Number Method Blank 06051		R506003-01 15-01 9951 Kitchen		R506003-02 9952 Kitchen		R506003-03 9953 Kitchen		
Analyte	Result ppbv	<i>RL</i> ppbv	Result ppbv	<i>RL</i> ppbv	Result ppbv	<i>RL</i> ppbv	Result ppbv	<i>RL</i> ppbv	
Bromomethane	U	0.0200	0.0610	0.0200	0.100	0.100	0.270	0.100	

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

SERAS Sample Number Sample Number Sample Location	N/. PS-Method Bla N/.	nk 060615-01	R506004-03 615-01 9956 Kitchen Cabinet		99	004-01 054 Cabinet	9	6004-02 9955 Ichen	
Analyte	Result ppbv	<i>RL</i> ppbv	Result ppbv	<i>RL</i> ppbv	Result ppbv	<i>RL</i> ppbv	Result ppbv	<i>RL</i> ppbv	
Bromomethane	U	0.0200	0.647	0.0200	0.271	0.100	U	0.100	

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

SERAS Sample Number Sample Number Sample Location

Analyte

R506004-04 9957 Kitchen/Living room

Result *RL* ppbv ppbv

Bromomethane 0.414 0.100

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

SERAS Sample Number Sample Number Sample Location	N/ <i>F</i> PS-Method Blar N/ <i>F</i>	nk 060915-01	R506006-05 9885 Trip Blank		R5060 98 Kitchen/Li		9	6006-03 9883 Bedroom
Analyte	Result ppbv	<i>RL</i> ppbv	Result ppbv	<i>RL</i> ppbv	Result ppbv	<i>RL</i> ppbv	Result ppbv	<i>RL</i> ppbv
Bromomethane	U	0.0200	0.0389	0.0200	0.531	0.0200	0.541	0.0198

Table 1.1a(cont.) Result of the Analysis for VOC (ppbv) in Air WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

SERAS Sample Number Sample Number Sample Location	Number 9884 Location Bedroom		98	006-02 882 io AA
Analyte	Result ppbv	<i>RL</i> ppbv	Result ppbv	<i>RL</i> ppbv
Bromomethane	0.370	0.0200	U	0.0200

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Page 1 of 2

Table 1.1b Results of the Analysis for VOC (μg/m³) in Air WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

SERAS Sample Number	N/A R506003-0 Method Blank 060515-01 9951 N/A Kitchen		R506003-02	R506003-03
Sample Number			9952	9953
Sample Location			Kitchen	Kitchen
<u>Analyte</u>	Result <i>RL</i>	Result <i>RL</i>	Result <i>RL</i>	Result <i>RL</i>
	µg/m³ µg/m³	µg/m³ µg/m³	μg/m³ μg/m³	μg/m³ μg/m³
Bromomethane	U 0.0777	0.237 0.077	7 0.389 0.388	1.05 0.388

Table 1.1b (cont) Results of the Analysis for VOC (μ g/m³) in Air WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

SERAS Sample Number Sample Number Sample Location	N/A PS-Method Blank 0 N/A	060615-01 99	R506004-03 9956 Kitchen Cabinet		04-01 54 Cabinet		6004-02 9955 itchen	
Analyte	Result <i>RL</i> μg/m³ μg/		<i>RL</i> µg/m³	Result µg/m³	<i>RL</i> μg/m³	Result µg/m³	<i>RL</i> μg/m³	
Bromomethane	U 0.0	0777 2.51	0.0777	1.05	0.388	U	0.388	

Table 1.1b (cont) Results of the Analysis for VOC (μ g/m³) in Air WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

Analyte

SERAS Sample Number R506004-04
Sample Number 9957
Sample Location Kitchen/Living room
Result RL

Bromomethane 1.61 0.388

μg/m³

μg/m³

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu g/m^3$) in Air WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

SERAS Sample Number	N/A	R506006-05	R506006-01	R506006-03
Sample Number	PS-Method Blank 060915-01	9885	9881	9883
Sample Location	N/A	Trip Blank	Kitchen/Living room	Master Bedroom
Analyte	Result <i>RL</i>	Result <i>RL</i>	Result <i>RL</i>	Result <i>RL</i>
	µg/m³ µg/m³	µg/m³ µg/m³	μg/m³ μg/m³	µg/m³ µg/m³
Bromomethane	U 0.0777	0.151 0.0777	2.06 0.0777	2.10 0.0770

Table 1.1b Results of the Analysis for VOC ($\mu g/m^3$) in Air WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

SERAS Sample Number Sample Number Sample Location	R5060 988 Bedre	34	R5060 98 Patio			
_Analyte	Result µg/m³	<i>RL</i> μg/m³	Result µg/m³	<i>RL</i> μg/m³		
Bromomethane	1.44	0.0777	U	0.0777		

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Table 2.1 Results of the LCS Analysis for VOC in Air WA# SERAS-270, St. John Methyl Bromide Response

Page 1 of 1

Sample ID: LCS 060515

Analyte	LCS Spike Amount ppbv	LCS Recovered ppbv	% Recovery	QC Limits % Recovery
Bromomethane	1.00	1.17	117	72 - 139

Sample ID: LCS 060615

Analyte	LCS Spike Amount ppbv	LCS Recovered ppbv	% Recovery	QC Limits % Recovery
Bromomethane	1.00	1.17	117	72 - 139

Sample ID: LCS 060915

Analyte	LCS Spike Amount ppbv	LCS Recovered ppbv	% Recovery	QC Limits % Recovery
Bromomethane	1.00	1.17	117	72 - 139

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SERAS-270-DAR-061715



Table 2.2 Results of the Duplicate Analysis for VOC in Air WA# SERAS-270, St. John Methyl Bromide Response

Page 1 of 1

Sample ID: 9953

Analyte	Initial Analysis ppbv	Duplicate Analysis ppbv	RPD	QC Limit RPD
Bromomethane	0.270	0.269	0	≤25

Sample ID: 9957

Analyte	Initial Analysis ppbv	Duplicate Analysis ppbv	RPD	QC Limit RPD
Bromomethane	0.414	0.411	1	≤25

Sample ID: 9881

Analyte	Initial Analysis ppbv	Duplicate Analysis ppbv	RPD	QC Limit RPD
Bromomethane	0.531	0.559	5	≤25

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SERAS-270-DAR-061715

Project Number: 270

LM Contact: G. SAAL Phone: G. (732) 321-4200[[] EPA Contract 68-C99-223 No: Phone: 609-7504 Sheet 01 of 01(Do not copy) (for addnl. samples use new form) *50600* 3 Sample Identification **Analyses Requested** Final Par Can # 10-15 REAC P Sampling Location Matrix **Date Collected** # of Bottles Container/Preservative Sample No 9951 Kitchen 14316 AIR 9952 KitCheem صاتی ۔ Ain Special Instructions: SAMPLES TRANSFERRED FROM Matrix: PW- Potable Water **CHAIN OF CUSTODY #:** A- Air Mathyl Bromida S- Soil AT-Animal Tissue SD- Sediment DL- Drum Liquids SL- Sludge **DS- Drum Solids** SW- Surface Water GW- Groundwater TX-TCLP Extract O-Oil W- Water PR-Product X- Other PT-Plant Tissue

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PR-Product

W- Water

REAC, Edison, (732) 321-4200 EPA Contract 68-C99-223

Project Name: SERAO3 SERCIO 10

Project Number:_

LM Contact Jose Yousefor Phone: 908415 3546

No:

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Project Number: SER 00270

LM Contact Desc Youse fan Phone: 9884183546

No:

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REAC, Edison, NI (732) 321-4200 EPA Contract 68-C99-223 SER

CHAIN OF CUSTODY RECORD Project Name: SERANT Project Number: LM Contact

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PR-Product	W- Water	· · · · · · · · · · · · · · · · · · ·	J								

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		7											

PT-Plant Tissue

X- Other

REAC, Edison, HER0270 Project Name: (732) 321-4200 EPA Contract 68-C99-223 Project Number: No: Phone: 9084133546 LM Contact: > Sheet 01 of 01(Do not copy) (for addnl. samples use new form) P# R50600C Sample Identification **Analyses Requested** # of Bottles REAC Matrix Date Collected Container/Preservative Sampling Location 03 -3.37 Yaster Boluon 616-61718 Silmme Δ 9884 Bedroom 1406 1401

A- Air
AI-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater

DS- Drum Solids GW- Groundwater O- Oil PR-Product PT-Plant Tissue PW- Potable Water S- Soil SD- Sediment SL- Sludge SW- Surface Water TX-TCLP Extract W- Water X- Other To avalyze for Bromo Methane. All windows closed, exhaust feins off, ventilation off.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

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REAC, Edison, (732) 321-4200 EPA Contract 68-C99-223 CHAIN OF CUSTOPY RECORD

Project Name: STRAOT

Project Number: SEROU270

Phone: 7084153546 LM Contact: J- Yousefern

No:

Sheet 01 of 01(Do not copy) (for addnl. samples use new form)

WOH	R506006	Sample Identificati	on		Summo			alyses Reques			
REAC	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	Time	Rosu	2 Summe	Volume	MeBr
05\$	9885	Trip Blank	A	6/7/15	\	Summa Non	u 130	0-29,5	113741	6(4)	
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Moteles				Special Instru	ctions:			SAMPLES	TDANCE	EDDEN E	DOM

AT-Animal Tissue DL- Drum Liquids DS- Drum Solids GW- Groundwater O-Oil

PR-Product PT-Plant Tissue

PW- Potable Water S- Soil

SD- Sediment SL- Sludge SW- Surface Water TX-TCLP Extract

W- Water X- Other

Trip Blank For 24-hour summa Sampling Went. To be analyzed for Bromo Methane.

LSAMPLES TRANSFERRED FROM **CHAIN OF CUSTODY #:**

. Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
1 Pan Dals	11/1/2	6/8/15	Anna Potto	6/9/15	13:45	All/Analysis	hura Horan	6/9/15	N. Bell	419/45	13:06
1/ 55		7 7 -					0				
											5 3